Highway Number (ON) 5D: 470A 1

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 25.053 mi

dge Key: F-17-IC	;	Inspection Date: 12	/14/2011	Sufficiency Rating: 70.0	Not Eligib
Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B	
rans Region 2T	02	Posting status 41:	Α	SI Date 93C:	
County Code 3:	035	Service on/un 42A/B:	1 5	Bridge Cost 94:	\$ 0
OUGLAS		Main Mat/Desgn 43A/B:	1 19	Roadway Cost 95:	\$ 0
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
on-city	<u></u>	Main Spans Unit 45:	3	Year of Cost Estimate 97:	, -
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	3	Horiz Clr 47:	38.0 ft	Border Bridge Number 99	
evel of Service 5C:	1	Max Span 48:	15.7 ft	Defense Highway 100:	0
	0	Str Length 49:	49.0 ft	Parallel Structure 101:	N
eature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	2
VILLOW CREEK		Width Curb to Curb 51	0.0 ft	Temporary Structure 103	-
facility Carried 7:		Width Out to Out 52:	228.3 ft	Highway System 104:	1
SH 470 ML			11,420.5 sq. ft		0
		Deck Area: Min Clr Ovr Brdg 53:	99.99	Fed Lands Hiway 105: Year Reconstructed 106	0000
llias Str No.8A:			99.99 N		
		Min Undrolr Ref 54A:		Deck Type 107:	N
Prll Str No. 8P		Min Undrolr 54B:	0.0 ft	Wearing Surface 108A	N
		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	N
ocation 9:	328.051174090	Min Lat Undrolr R 55B:	0.0 ft	Deck Protection 108C:	N
.5 MI W OF JCT I 25		Min Lat Undrclr L 56:	0	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	N	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	N	Pier Protection 111:	#
sinvRout 13A	000000470A	Sub 60:	N	NBIS Length 112:	Υ
ssubRout No13B:	00	Channel/Protection 61:	8	Scour Critical 113:	8
atitude 16:	39d 33' 47"	Culvert 62:	6	Scour Watch 113M:	0
ongitude 17:	104d 53' 16"	Oprtng Rtg Method 63:	5 No rating	Future ADT 114:	162,640
Range18A:	67 W	Operating Rating 64:	36.0	Year of Future ADT 115	2028
ownship18B:	67	Inv Rtng Method 65:	5	CDOT Str Type 120A:	СВС
Section18C:	4	Inventory Rating 66:	36.0	CDOT Constr Type 120B	0.
etour Length 19:	2.0 mi	Asph/Fill Thick 66T:	120 "in"	Inspection Indic 122A:	
oll Facility 20:	3	Str. Evaluation 67:	6	Inspection Trip 122AA	
Custodian 21:	1	Deck Geometry 68:	N	Scheduling Status 122B	
Owner 22:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123	30
unctional Class 26:	12	Posting 70:	5	Expansion Dev/Type124	0
ear Built 27:	1984	Waterway Adequacy 7	9	Brdg Rail Type/Mod 125A/B	FB 0
anes on 28A:	6	Approach Alignment 72:	8	Posting Trucks 129A/B/C	0 0 0
anes Under 28B:	0	Type of Work 75A:		Str Rating Date 130:	1/1/1901
ADT 29:	107,000	Work Done By 75B:		Special Equip 133:	-1
ear of ADT 30:		Length of Improvment 76:	0.0 ft	Vert Cir N/E 134A/B/C:	
	2008	Insp Team Indicator 90B:	RED TEAM		154
Design Load 31:	6			Vert Clr S/W 135A/B/C	X 99.99 0.0
pr Rdwy Width 32:	76.0 ft	Inspector Name 90C:	RUTHERFORDI	Vertical Clr Date:	1/1/1901
Median 33:	2	Frequency 91:	24 months	Weight Limit Color: 139	0
Skew 34:	40.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indiq	1

Inspector Name: RUTHERFORDD

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
241/4	Concrete Culvert	(LF)	894	86 %	769	11 %	98	3 %	27	0 %	0	0 %	0
327/4	Culvert Wingwalls	(EA)	2	0 %	C	100 %	2	0 %	0	0 %	0	0 %	0
335/4	Culvert Headwalls	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
501/4	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
502/4	ChannProtMatCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
504/4	BankCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes				
241/4	Concrete Culvert	Some longit. cracks with active leakage, efflorescence, rust stains, and stalactites i top slab of all cells. Several 1/16 inch wide longitudinal cracks without efflorescence in top slab. Light trans. crack with efflor. at the right end of Cell #2 in the top slab extends 15 ft. (PHOTO 1/08), and another extends 50 ft. near midspan. Some light vert. cracks in Walls 2 & 3. Mod. efflor. at top of Walls 2 (PHOTO 1/08), 3, and 4 due to seepage.				
327/4	Culvert Wingwalls	Does not include retaining walls at left side which are included in off-system inspection. Flared wingwalls at the right side. #4 Right wingwall pushed 3.5 inches and joint is open 2 inches. #1 Right wing pushed 3.5 inches at top. Typical vertical cracks with efflorescence.				
335/4	Culvert Headwalls	Some light vert. cracks with efflor. in right headwall, and few vert. cracks without efflor. in left headwall.				
501/4	Channel Cond	Willow Creek. Good alignment. Well defined channel. Some cutting. Lined with grass and weeds. Flows mostly through Cell #2 at this time. Rock riprap (1 ft. diam.) placed in channel at inlet to Cell #2.				
502/4	ChannProtMatCond	Large diam. rock riprap behind both wings at right side. Up to 4 ft. diam. rock has been placed between channel and bike path on upstream side.				
504/4	BankCond	Steep, dirt with grass and some trees. Somewhat erodeable.				

Bridge Notes

156 Feet of culvert (below E. Parkway Dr.) is inspected as OFF-SYSTEM. (DOUGLAS COUNTY Structure = Lone Tree - 1.) CDOT inspects portion from elbow joint to inlet. (298 feet). Cracks at cold jt. between retaining walls at lt. side and CBC.

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Inspection Notes

Time: 11:45	Temperature: 40 Degrees	Weather: Clear	Team Leader: TAT
Scope:			
✓ NBI: ✓ El	ement: Underwater:	Fracture Critical	: Other: Type: Regular NBI
Inspector:	RUTHERFORDD	Inspection Team	n:
Inspection Date:	: 12/14/2011		
·		Inspector	
		Inspector	